

SEQUENCE LISTING

<110> Balong franci Cao, Weiguo Tong, Jie

<120> HIGH FIDELITY THERMOSTABLE LIGASE AND USES THEREOF

<130> 19603/2615

<140> 09/830,502

<141> 1999-10-29

<150> 60/106,461

<151> 1998-10-30

<150> PCT/US99/25437

<151> 1999-10-29

<160> 20

<170> PatentIn Ver. 2.1

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<212> PRT

<213> Thermus sp.

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Glu Arg Phe Pro Glu Leu Lys Ser Pro Asp Ser Pro Thr Glu Gln Val
50 55 60

Gly Ala Arg Pro Leu Glu Ala Thr Phe Arg Pro Val Arg His Pro Thr 65 70 75 80

Arg Met Tyr Ser Leu Asp Asn Ala Phe Ser Leu Asp Glu Val Arg Ala 85 90 95

Phe Glu Glu Arg Ile Glu Arg Ala Leu Gly Arg Lys Gly Pro Phe Leu

100 105 110

Tyr	Thr	Val 115	Glu	Arg	Lys	Val	Asp 120	Gly	Leu	Ser	Val	Asn 125	Leu	Tyr	Tyr
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Gly 145	Glu	Glu	Val	Thr	Gln 150	Asn	Leu	Leu	Thr	Ile 155	Pro	Thr	Ile	Pro	Arg 160
Arg	Leu	Thr	Gly	Val 165	Pro	Asp	Arg	Leu	Glu 170	Val	Arg	Gly	Glu	Val 175	Tyr
Met	Pro	Ile	Glu 180	Ala	Phe	Leu	Arg	Leu 185	Asn	Gln	Glu	Leu	Glu 190	Glu	Ala
Gly	Glu	Arg 195	Ile	Phe	Lys	Asn	Pro 200	Arg	Asn	Ala	Ala	Ala 205	Gly	Ser	Leu
Arg	Gln 210	Lys	Asp	Pro	Arg	Val 215	Thr	Ala	Arg	Arg	Gly 220	Leu	Arg	Ala	Thr
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Gly	Phe	Thr	Arg 260	Ala	Leu	Gly	Ala	Glu 265	Gly	Val	Glu	Glu	Val 270	Tyr	Gln
Ala	Trp	Leu 275	Lys	Glu	Arg	Arg	Lys 280	Leu	Pro	Phe	Glu	Ala 285	Asp	Gly	Val
Val	Val 290	Lys	Leu	Asp	Asp	Leu 295	Ala	Leu	Trp		Glu 300	Leu	Gly	Tyr	Thr
Ala 305	Arg	Thr	Pro	Arg	Phe 310	Ala	Leu	Ala	Tyr	Lys 315	Phe	Pro	Ala	Glu	Glu 320
Lys	Glu	Thr	Arg	Leu 325	Leu	Ser	Val	Ala	Phe 330	Gln	Val	Gly	Arg	Thr 335	Gly
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355 360 365

Asp	Val 370	Arg	Ile	Gly	Asp	Trp 375	Val	Leu	Val	His	Lys 380	Ala	Gly	Gly	Val
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610 . 615 . 620

Ser Arg Lys Thr Ser Phe Leu Val Val Gly Glu Asn Pro Gly Ser Lys 625 630 635 640

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Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Glu Glu Ser Gly Xaa Xaa Xaa 115
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125

Asp Gly Val Val Lys Met Asp 180

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Asp Gly Val Val Lys Leu Asp 180

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Asp Gly Val Val Lys Leu Asp 180